AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

by comprising: a plurality of base stations, [[; and]] a network control station conceptually located above said plurality of base stations and mobile stations receiving signals from said plurality of base stations, said mobile communication system characterized in that: , the network control station duplicating and/or synthesizing information in order to allow a mobile station to simultaneously communicate with at least two base stations

said mobile station determines to which base stations the mobile station is to be connected in order to satisfy a downlink receiving quality desired by the mobile station and notifies said network control station of the desired base stations to which the mobile station is to be connected,

said network control station transmits a duplicated information signal to said desired base stations in order to allow a mobile station to simultaneously communicate with at least two base stations, and

said mobile station receives and synthesizes signals transmitted by the plurality of base stations to control the downlink receiving quality.

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2. (Cancelled).

3. (Currently Amended) A mobile communication system according to claim 1,

further comprising: a plurality of base stations; a network control station conceptually located

above said plurality of base stations, the network control station duplicating and/or synthesizing

information in order to allow a mobile station to simultaneously communicate with at least two

base stations; and

quality control means coupled to said network control station and communicating with

the mobile stations;

wherein said mobile station notifies said quality control means of the downlink receiving

quality desired by the mobile station and the location of the mobile station,

said quality control means determines to which base stations the mobile station is to be

connected in order to satisfy said downlink receiving quality and notifies said network control

station of the desired base stations to which the mobile station is to be connected having a

function of managing receiving quality of a mobile station present within a service area and/or a

function of measuring traffic in each cell within the service area, the quality control means

notifying said network control station of base stations with which the mobile station is to

communicate simultaneously.

4. (Cancelled).

5. (Currently Amended) The mobile communication system according to claim 3,

characterized in that:

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control means of a desired uplink receiving quality received by base stations and/or a

transmittable maximum power of the mobile station and/or the location of the mobile station,

said quality control means has means for identifying base stations to which said mobile

station is to be connected in order to satisfy the desired uplink receiving quality in such a manner

that the transmittable maximum power of said mobile station is not exceeded and means for

requesting the base stations and said network control station to receive and synthesize a signal

from said mobile station and designating transmission power that is to be used by said mobile

station, and

said mobile station transmits information using said designated transmission power, and

the network control section synthesizes signals received by the base stations to control the uplink

receiving quality.

The mobile communication system according to claim 3, 6. (Original)

characterized in that:

said quality control means has means for measuring traffic in cells surrounding a cell in

which said mobile station is present and means for requesting the network control station to

transmit a duplicate signal to one or more stations, if any, which have a lower measured traffic

and which can transmit information to said mobile station communicating in an adjacent cell,

and

said mobile station receives and synthesizes signals from base stations that have been

communicating with the mobile station and from the one or more base stations, thereby

improving the downlink receiving quality.

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7. (Currently Amended) A receiving quality control method for a mobile communication system having a plurality of base stations, a network control station conceptually located above said plurality of base stations and mobile stations receiving signals from said

plurality of base stations within a service area, the method being characterized in that:

a network control station duplicates and/or synthesizes information in order to allow a mobile station to simultaneously communicate with at least two base stations

said mobile station determines to which base stations the mobile station is to be connected in order to satisfy a downlink receiving quality desired by the mobile station and notifies the network control station of the desired base stations to which the mobile station is to be connected,

said network control station transmits a duplicated information signal to said desired base stations in order to allow a mobile station to simultaneously communicate with at least two base stations, and

said mobile station further receives and synthesizes signals transmitted by the plurality of base stations to control the downlink receiving quality.

- 8. (Cancelled).
- 9. (Currently Amended) A receiving quality control method according to claim 7, for a mobile communication system having a plurality of base stations within a service area, the method being characterized in that:

when a network control station duplicates and/or synthesizes information in order to

allow a mobile station to simultaneously communicate with at least two base stations, said

network control station is notified of the base stations with which the mobile station is to

communicate simultaneously using quality control means having a function of managing

receiving quality of a mobile station present within the service area and/or a function of

measuring traffic in each cell within the service

said mobile station notifies quality control means, which is coupled to said network

control station and communicates with the mobile stations, of the downlink receiving quality

desired by the mobile station and the location of the mobile station,

said quality control means determines to which base stations the mobile station is to be

connected in order to satisfy said downlink receiving quality and notifies said network control

station of the desired base stations to which the mobile station is to be connected.

10. (Cancelled).

11. (Currently Amended) The receiving quality control method according to claim 9,

characterized in that:

before transmitting information, said mobile station notifies said quality control means of

a desired uplink receiving quality received by base stations and/or a transmittable maximum

power of the mobile station and/or the location of the mobile station,

said quality control means identifies base stations to which said mobile station is to be

connected in order to satisfy the desired uplink receiving quality in such a manner that the

transmittable maximum power of said mobile station is not exceeded, requests the base stations

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and said network control station to receive and synthesize a signal from the mobile station, and

designates transmission power that is to be used by said mobile station, and

said mobile station transmits information using the designated transmission power, and

said network control section synthesizes signals received by the base stations to control the

uplink receiving quality.

12. (Original) The receiving quality control method according to claim 9,

characterized in that:

said quality control means measures traffic in cells surrounding a cell in which said

mobile station is present, and requests said network control station to transmit a duplicate signal

to one or more base stations, if any, which have a lower measured traffic and which can transmit

information to said mobile station communicating in an adjacent cell, and

said mobile station receives and synthesizes signals from base stations that have been

communicating with the mobile station and from the one or more base stations, thereby

improving the downlink receiving quality.

13. (Currently Amended) A recording medium having a receiving quality control

program for a mobile communication system recorded therein, the mobile communication

system having a plurality of base stations, a network control station conceptually located above

said plurality of base stations and mobile stations receiving signals from said plurality of base

stations within a service area, the recording medium being characterized in that said program

allows execution of [[a step]] steps of:

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in said mobile station determining to which base stations the mobile station is to be connected in order to satisfy a downlink receiving quality desired by the mobile station and notifying said network control station of the desired base stations to which the mobile station is to be connected;

in said network control station transmitting a duplicated information signal to said desired base stations causing a network control station to duplicate and/or synthesize information—in order to allow a mobile station to simultaneously communicate with at least base stations; and

in said mobile station further receiving and synthesizing signals transmitted by the plurality of base stations to control the downlink receiving quality.

14. (Currently Amended) A recording medium according to Claim 13, characterized in that:

in said mobile station notifying quality control means, which is coupled to said network control station and communicates with the mobile stations, of the downlink receiving quality desired by the mobile stations and the location of the mobile station; and

in said quality control means determining to which base stations the mobile station is to be connected in order to satisfy the receiving quality and notifying said network control stations of the desired base stations to which the mobile station is to be connected

having a receiving quality control program for a mobile communication system recorded therein, the mobile communication system having a plurality of base stations within a service area, the recording medium being characterized in that when a network control station duplicates and/or synthesizes information in order to allow a mobile station to simultaneously communicate with at least two base stations, said program causes a computer to execute a step of notifying said

network control station of the base stations with which the mobile station is to communicate

simultaneously using quality control means having a function of managing receiving quality of a

mobile station present within the service area and/or a function of measuring traffic in each cell

within the service.